

Supplementary Tables

Table S1 Influence of insecticide resistance mutations on fecundity

term	est.	SE	min	max	χ^2	df	P
intercept	1.295	0.029	1.280	1.239			³
class ¹	0.115	0.041	0.103	1.354			³
temperature ²	0.203	0.032	0.186	1.443			³
class*temperature	-0.007	0.046	-0.031	0.015	0.025	1	0.8752

Results of the Linear Mixed Model with log₁₀ transformed fecundity as response variable. est. = estimated effect size; SE = standard error; min/max = range of estimates obtained with leave one out cross validation of random effects; χ^2 = χ^2 value of a likelihood ratio test comparing full (with class*temperature interaction) and null model (without class*temperature interaction); df = degrees of freedom for the full-null model comparison; P = p-value for the full-null model comparison.

¹ dummy coded with haplotype class 1b as reference category

² dummy coded with the cold regime as reference category

³ not shown because of having a very limited interpretation

11 *Table S2 Influence of insecticide resistance mutations on viability*

term	est.	SE	min	max	χ^2	df	P
intercept	0.546	0.060	0.526	0.561			³
class ¹	-0.763	0.081	-0.778	-0.744			³
temperature ²	-0.872	0.086	-0.896	-0.852			³
class*temperature	0.444	0.116	0.424	0.469	14.479	1	<0.001

12 *Results of the Generalized Linear Mixed Model with viability as response variable. est. = estimated effect size (logit*
13 *transformed); SE = standard error; min/max = range of estimates obtained with leave one out cross validation of random*
14 *effects; χ^2 = χ^2 value of a likelihood ratio test comparing full (with class*temperature interaction) and null model (without*
15 *class*temperature interaction); df = degrees of freedom for the full-null model comparison; P = p-value for the full-null model*
16 *comparison.*

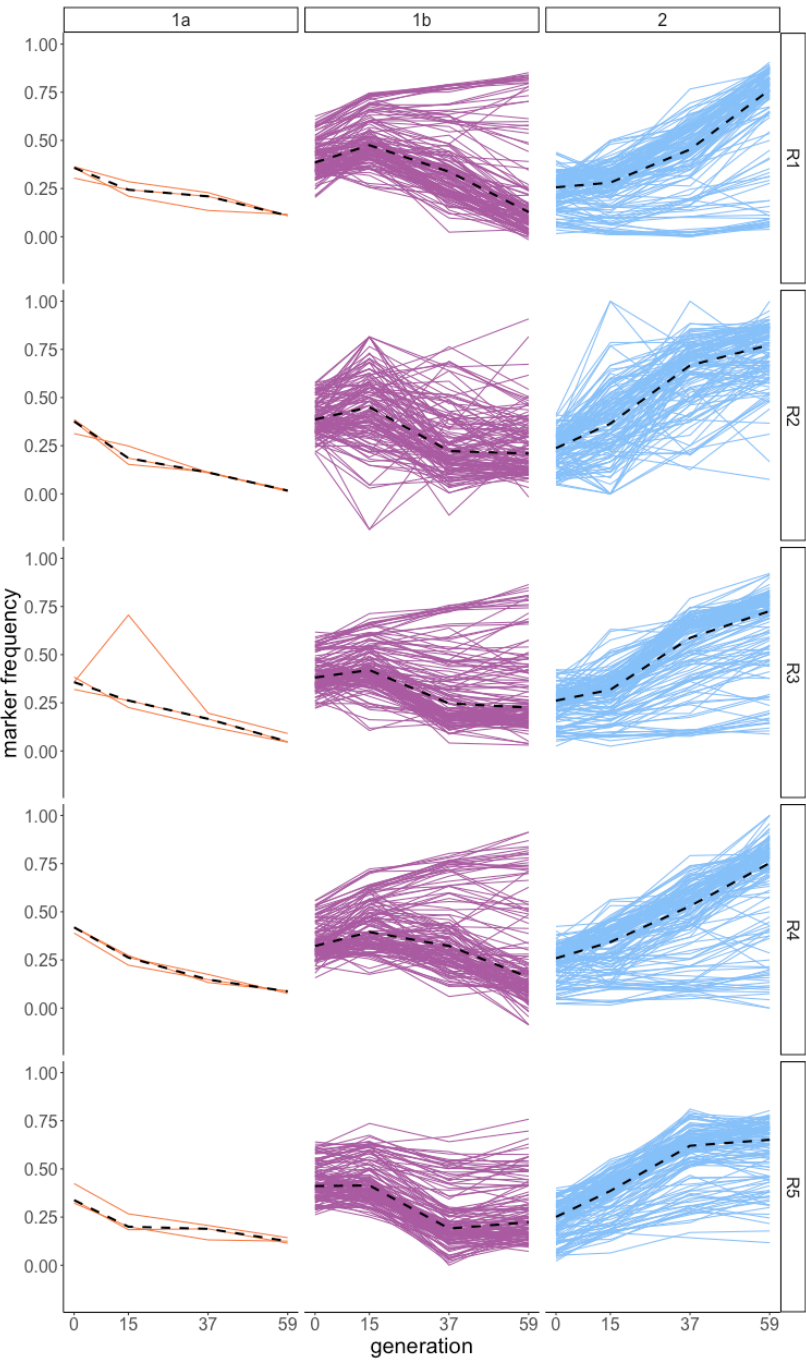
17 ¹ dummy coded with haplotype class 1b as reference category

18 ² dummy coded with the cold regime as reference category

19 ³ not shown because of having a very limited interpretation

20

21 **Supplementary Figures**

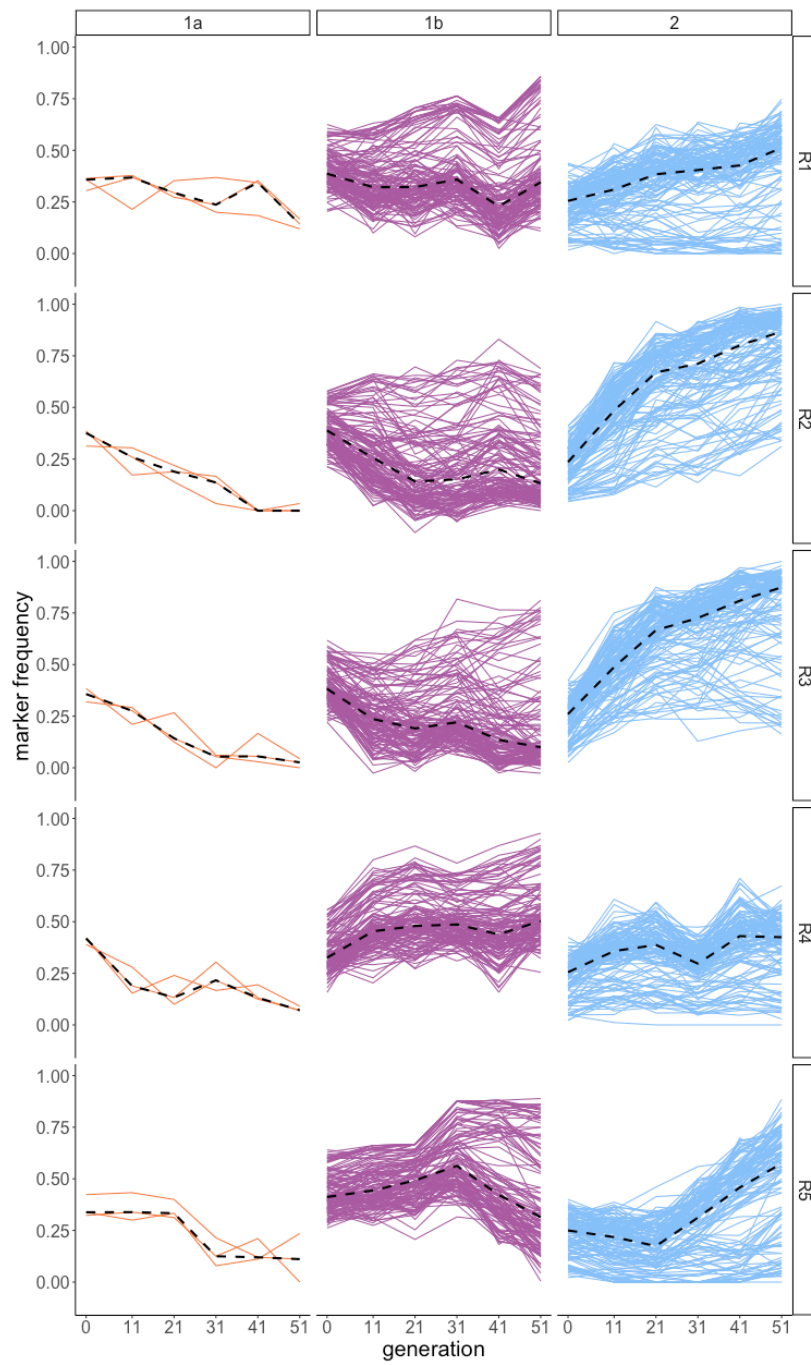


22

23 *Figure S1 Marker SNPs trajectories in the hot regime. In each experimental population, the haplotype class frequency (=*

24 *black dashed line) is determined by the median frequency of all marker SNPs (= colored lines). Each row shows one*

25 *experimental population replicate.*



26

27

28

29

Figure S2 Marker SNPs trajectories in the cold regime. In each experimental population, the haplotype class frequency (= black dashed line) is determined by the median frequency of all marker SNPs (= colored lines). Each row shows one experimental population replicate.

